



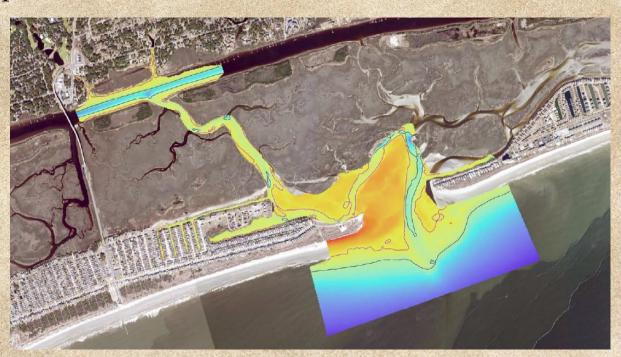
Outline

- Shoaling Analysis
- Bay Area Realignment & Permit Modification
- Mechanical Dredging Design Update
- Mechanical Dredging Construction Contract
- Shellfish Relocation Efforts
- S. Jinks Creek Maintenance Dredging Contract
- Comments & Questions



Shoaling Analysis

- With the change of Project Management and the need to ensure the mechanical dredging project is advertised in a timely manner these CAD efforts have again been delayed.
- The results of the shoaling analysis will be presented with our next Council presentation.





Bay Area Realignment & Permit Modification



- Permit modification now to include:
 - Bifurcation of Bay Area Channel
 - Stabilization of bulkhead at Cobia St.
 - New offloading site(s) Park & Seaside.
- Expected to be Submitted August 2, 2021
- Likely going to be a Major Modification
 - Expected time for review and approval 75 to 90 days

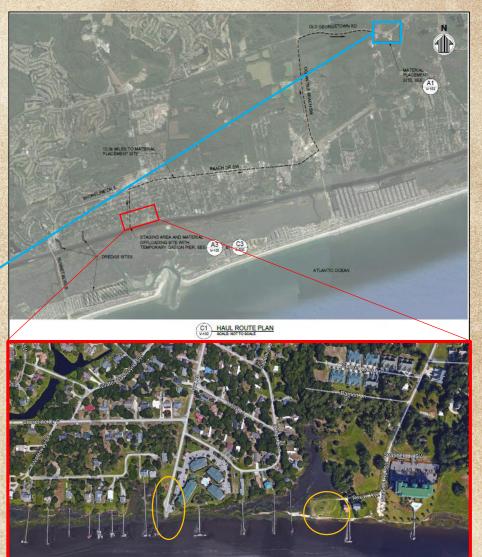




<u>Permit Modification -</u> /Offloading and Disposal Site

- Temporary gabion structure to stabilize bulkhead for offloading at Cobia St.
- Two additional offloading sites (Park and Seaside)
 - Requires temporary gabion pier.



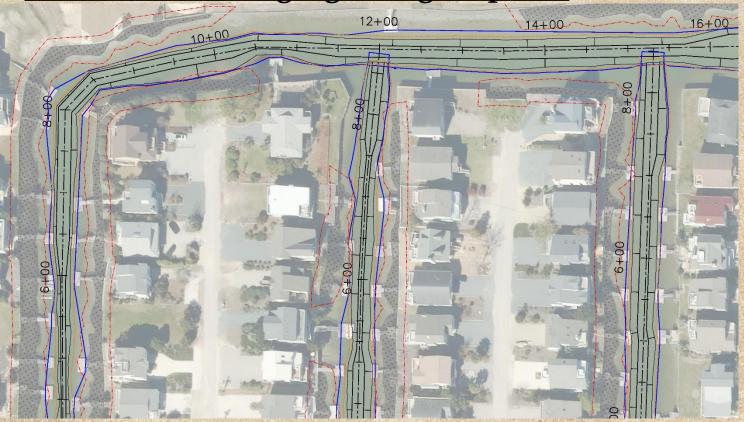


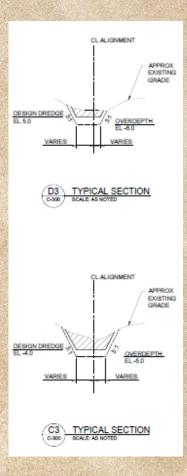
Mechanical Dredging Design Update

- Suggested previously that Owners could be given option to move docks
 - Caution on ability to widen channel/canal due to Marsh Grass
 - If they move their dock can be part of the project if within the originally permitted channel/canal outside of the permitted channel property owners will be 100% responsible. However, likely no cost will be applied for mobilization. (Some owners will have to acquire a field permit for the additional dredging outside of permitted channels/canals, which can be issued in one (1) day.)
 - Moving docks could raise the project cost by adding additional CY (Note project quantity on Slide 8)
- Previously suggested if docks not removed Contractor will need to stay 10-ft away. This resulted in a canal design that did not meet the intent of the project. The Contractors can dredge much closer to the docks but the design had to take into account pile locations. The channel was designed that the slopes would "daylight" 1-ft in front of the located piles.
- Bid will be based on project as-designed with an option for quantity that is within the permitted area that can be excavated for those that move their dock.



Mechanical Dredging Design Update





- Considerations:
 - Marsh Grass
 - Piers/Pilings (Performed a field investigation of all areas)
 - Slopes daylighting

Mechanical Dredging Design Update

- The result of the design changes is a reduction of volume from the originally estimated quantity of 64,500 CY.
- Below Table is based on the 65% Design with some minor adjustments still be done.
- The minimum will be 35,135 CY with a likely total of 45,000 to 50,000 CY

VOLUME TABLE		
DESIGNATION	CUMULATIVE DESIGN DREDGE (CY)	CUMULATIVE OVERDEPTH (CY)
MARYS CREEK	3,724	4,726
TURTLE CREEK	5,229	6,567
CANAL A & FEEDER CHANNEL	10,239	16,077
CANAL B	1,174	2,082
CANAL C	1,486	2,493
CANAL D	1,650	2,694
BAY AREA PRIMARY CHANNEL	9,051	13,141
BAY AREA SECONDARY CHANNEL	2,582	3,753
TOTALS	35,135	51,533

Mechanical Dredging Construction Contract

- Bay Area Channel, Feeder Channel, Finger Canals, Mary's & Turtle Creek
- Industry Day was held on July 27th
- Bid Advertisement is scheduled for August 11th
- Bid Opening will be planned for Sept 1, 2021
- Recommendation Letter to be provided by September 3rd for Council consideration at September 7th scheduled meeting
 - No need for Re-bid with current NC law (House Bill 735)
- Dredging may Commence as early as October 1, 2021



Shellfish Relocation Efforts

- Shellfish within the Feeder Channel system, the Bay Area, Mary's Creek and Turtle Creek must be relocated outside of the dredge footprint.
- Draft plan has been written and is under internal review.
- Plan to be submitted to Agencies week of August 9th.
- Should obtain approval within two weeks from Agencies.
- The relocation efforts are scheduled for October 2021, just before the dredging begins.



South Jinks Creek Dredging

- Contract is Signed by Contractor and ready to be signed by the Town
- Contractor will not be allowed to place equipment/pipeline on beach prior to November 16th.
- Contractor expected to begin mobilization in late October.
- Will need up to a week after
 November 16th to install pipeline.
- Expected Construction Duration is 2 months.
- Expected completion by End of January





Thank you!

Questions/Comments

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